BEST AVAILABLE COPY & -- O- Allo- & Solf restricted popular cTc lines

polis wto (0, 235, 441 at C228 (tre Control).
ethol as left use DC from LG4 as St

Problemente with perphote Coaded CIRAZ (pls. (50, m).

.. " MA-3-A2 (romer)

Empand & Chain

BEST AVAILABLE COPY

salvey rip. 5elf & Allo-roots of peptrale spentic

PBMC LG5 Det Colf.

pep 15000: WT-1 126. 187. 2000 Lue control E786-95.

Methods, see provious page.

- First round Shunderon with To I saded popular.

Roshmulate with poptole Loaded-CIRAZ

1/2 · ...

3/12 7.63.

7 (3- -- -2 13 ----

Counts 45 889

BEST AVAILABLE COPY

16

Protocol for peptide specific allorestricted human CTL

1. Prepare stimulator cells: in case of T2 stimulators preincubate o'n 106 cells/ml/well in x24 well plates in RPMI medium plus 5% boiled (10 min) FCS with 100 nM peptide. If allo Dc are used as stimulators, allo DC from A2 +ve individuals can be separated as following:

Incubate A2+ PBMC at 37°C O/N, barvest nonadherent cells, resuspend in RPMI+9%FCS at 5X106 /mI and layer onto metrizadime gradient carefully, spin at 1500 for 10 min and harvest the interface (30% low density DC, 20% recovered from PBMC counts). Wash X3 with medium, resuspend at 10 fml, add pepdides to a fmal cone of 50uM and incubate at 37°C for the peptides.

- 2. Separate blood by Ficoli centrifugation, wash twice, count, make sure that cells are HLA-A2 negative (by staining with HB54 and HB117 antibodies)
- 3. Plats 2x10⁶ effectors and 2x10⁵ stimulators per well in x24 well plates in culture medium (RPMI 1640, 10% FCS, 1% glutamine, 1% pen/strept 5x10-5 M 2-ME) with 500 nM peptide
- 4. On day 4 prepare stimulators as described in 1. if required. It may be not necessary to preincubate C1RA2 cells for more than 2 hrs
- 5. On day 5 harvest cells, count spin and seed $5x10^5$ effectors, $2x10^6$ irradiated (about 3000 rad) HLA-A2 negative autologous feeders, $2x10^5$ peptide loaded and irradiated (about 10000 rad) T2 or C1RA2 cells and 500 nM peptide in 2ml of the culture medium with 10u/ml IL-2, 2.5ng/ml (1/2000 of the stock of 5ug/ml) and with 10% of Q12054 culture sup (anti-CD4 antibodies) (complete medium)
- 6. 14 days (and further every 2 weeks) later restimulate cultures as described in 5. Cell recovery is usually 200%
- 7. On day 5 analyse peptido specificity in a 51 Cr release assay using T2 or mouse cells transfected with A2 molecule as CTL targets and cold K562 cells as NK targets (10 per 1 labelled target). Use 0.7% TFA for max release instead of 0.5% SDS. Significant peptide specificity is detectable after 5-7 week in culture with E:T ratio 10:1
- 8. Peptido specific cultures can be cloned seeding 1, 10 and 100 cells/well in round bottom x96 well plates in complete culture medium with 104